



NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Special Weather Briefing

NATIONAL WEATHER SERVICE ATLANTA

3 PM Thursday, January 13, 2022



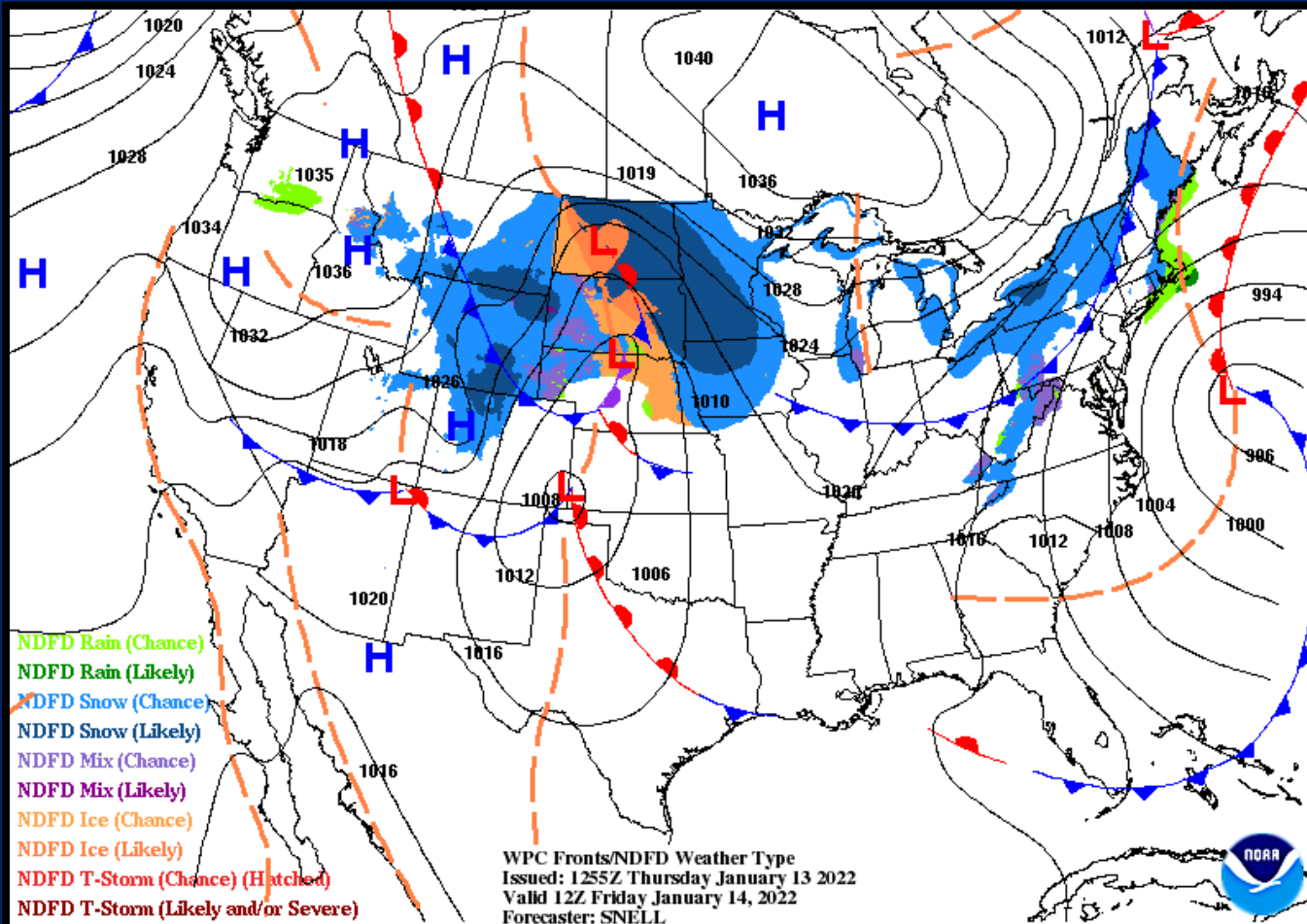
Disclaimer: The information contained within this briefing is time sensitive which should be taken into account while viewing.

Overview



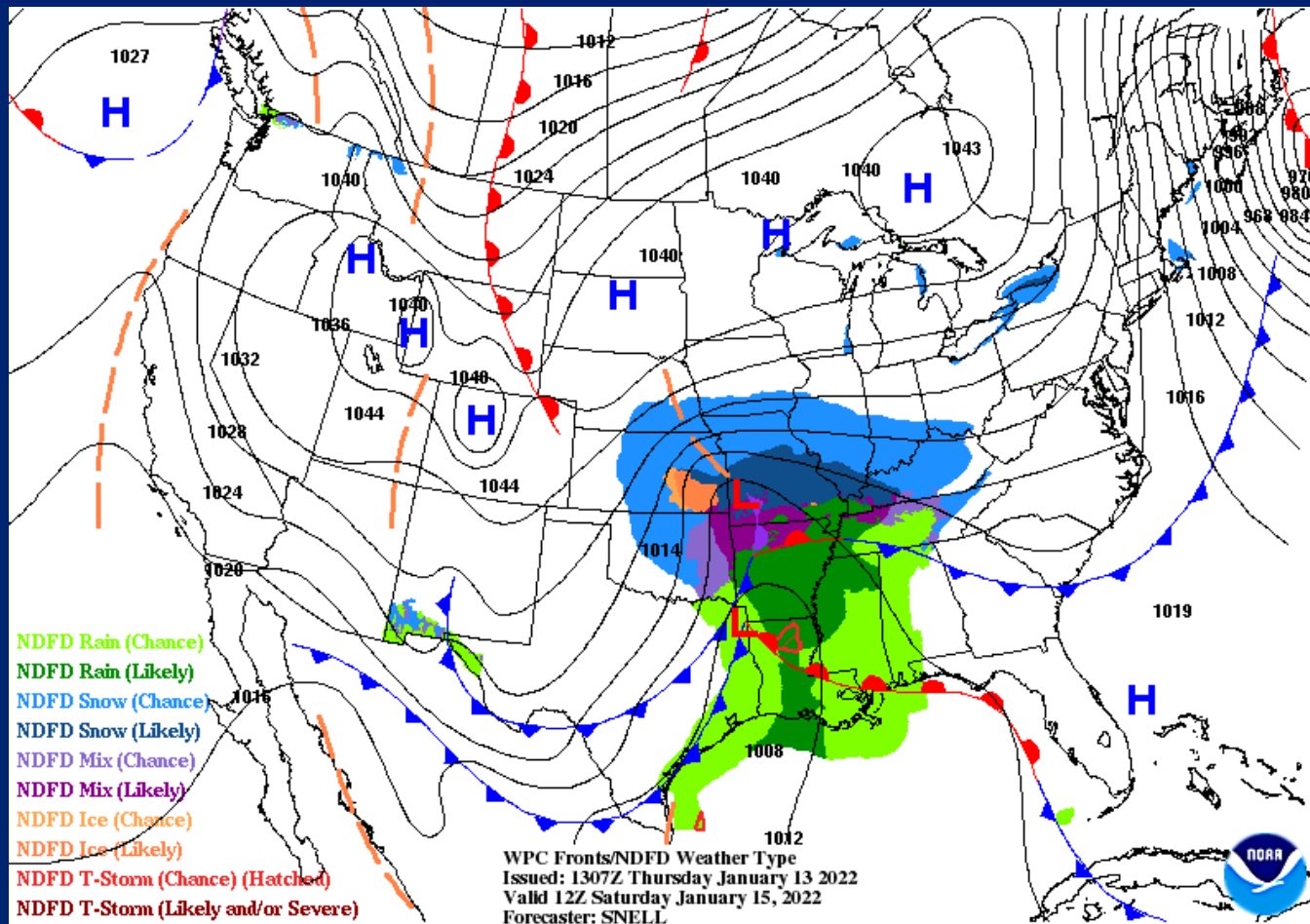
- The potential for a significant winter storm is increasing for parts of north Georgia later this weekend
- A mix of wintry precipitation likely over a 24-hour period (snow/sleet → freezing rain/rain → back to snow) beginning late Saturday night, through Sunday night.
- Details on snow/ice accumulations remain uncertain but some parts of the area (northeast GA) could see > 0.25" of ice and/or 3+" of snow

Weather Maps - Friday



- Dry and seasonal across the area
- Beginning to watch storm system over the Northern Plains as it dives south & east.

Weather Maps - Saturday



Evolution of forecast dependent upon:

- Strong high pressure building into New England.
 - Development of CAD wedge in north GA
- Track of the low pressure system as it moves through the Southeast.

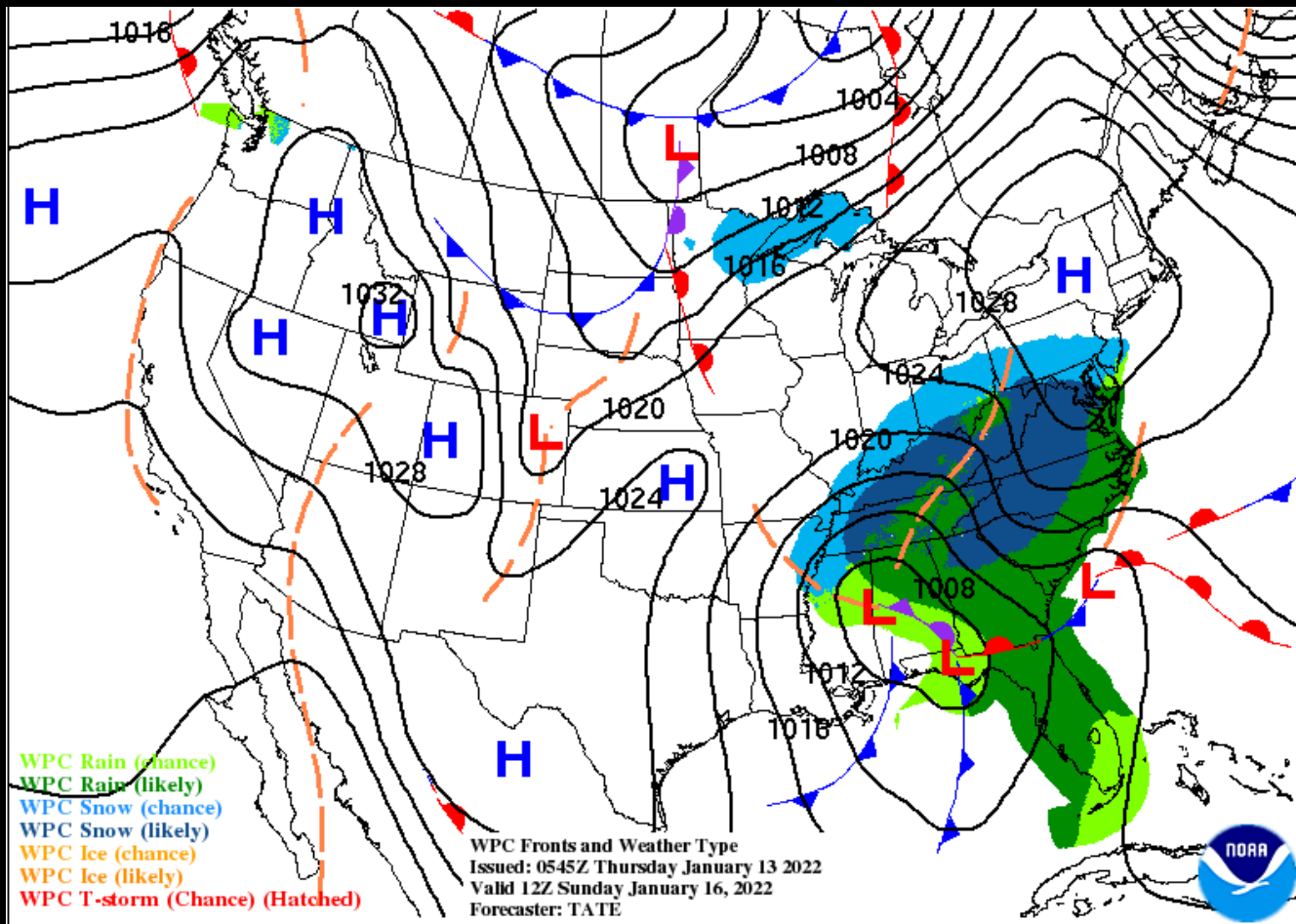


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Weather Maps - Sunday

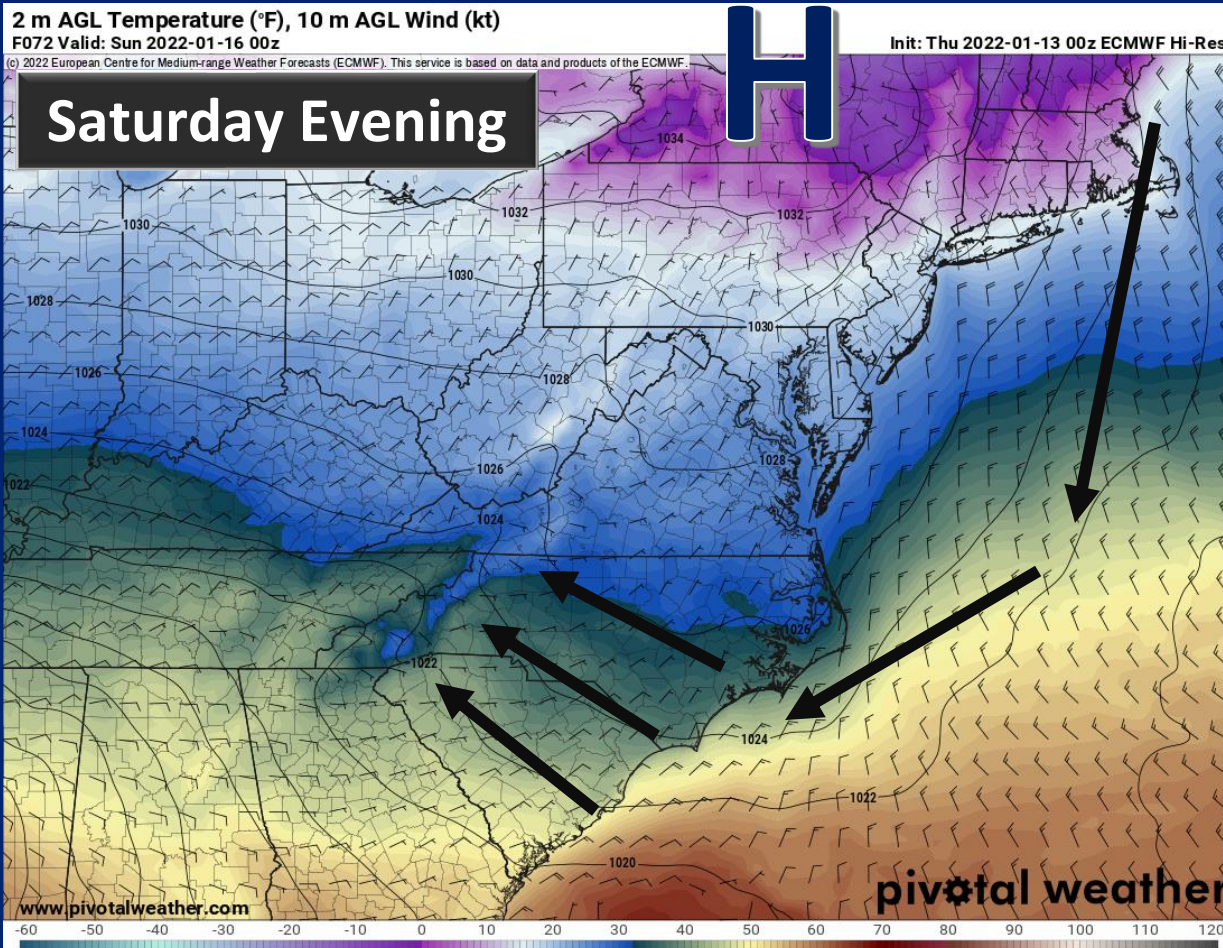


Evolution of forecast dependent upon:

- Strong high pressure building into New England.
 - Development of CAD wedge in north GA
- Track of the low pressure system as it moves through the Southeast.

Setup: Wedge Front

Saturday afternoon



Evolution of forecast dependent upon:

- Strong high pressure building into New England.
 - Development of CAD wedge in north GA
- Track of the low pressure system as it moves through the Southeast.

Setup: Wedge Front

Sunday morning

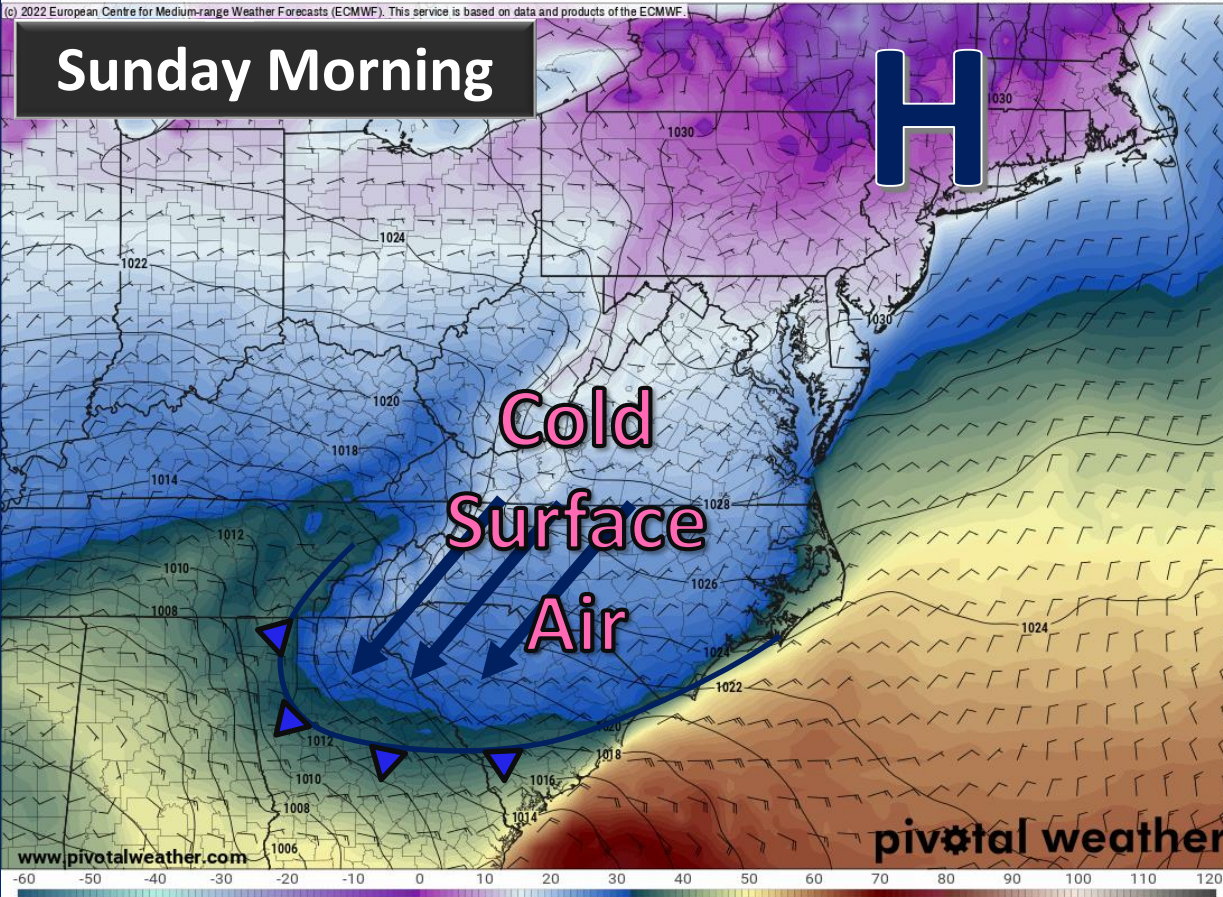


2 m AGL Temperature (°F), 10 m AGL Wind (kt)
F084 Valid: Sun 2022-01-16 12z

Init: Thu 2022-01-13 00z ECMWF Hi-Res

(c) 2022 European Centre for Medium-range Weather Forecasts (ECMWF). This service is based on data and products of the ECMWF.

Sunday Morning



Evolution of forecast dependent upon:

- Strong high pressure building into New England.
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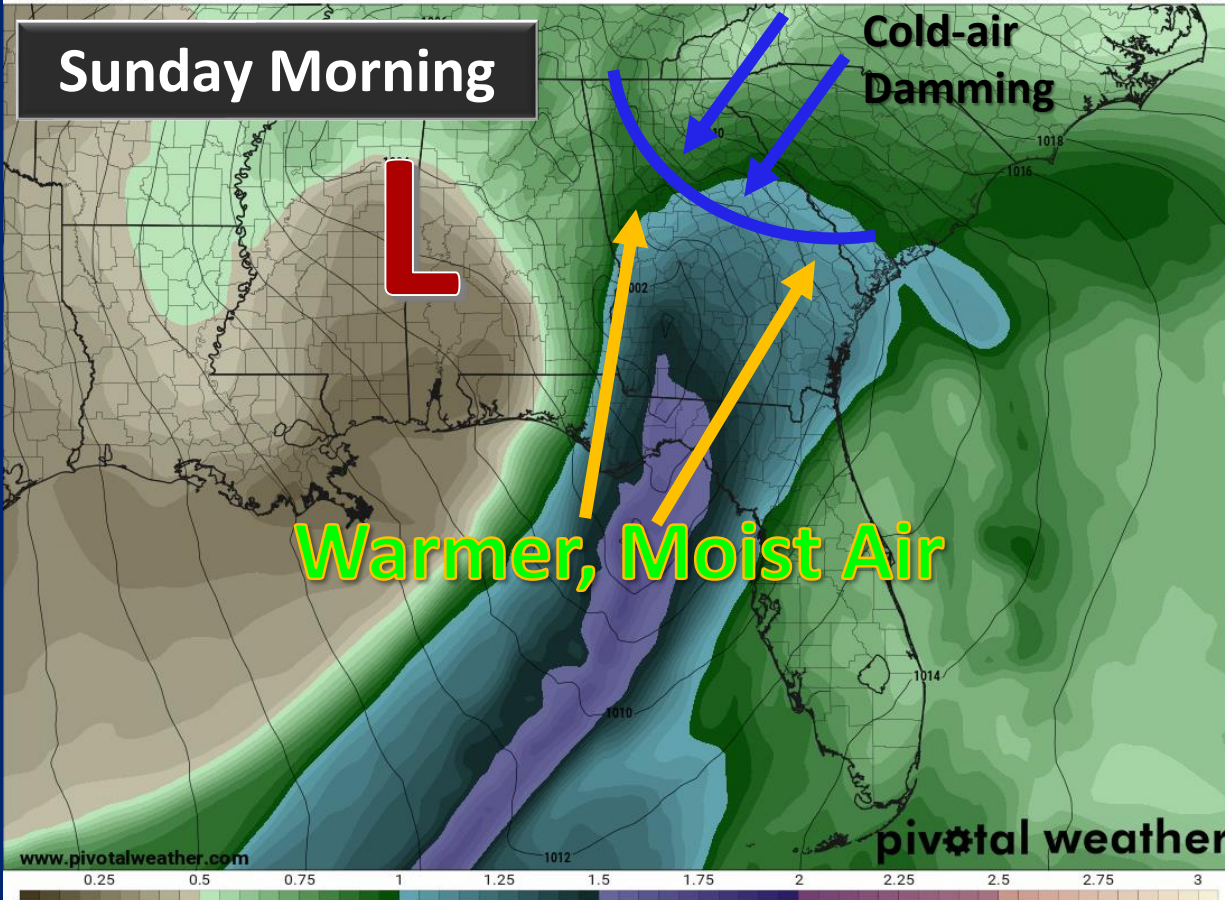
Battle of the “Wedge” vs. The Warm Nose



Precipitable Water (in)
F072 Valid: Sun 2022-01-16 06z

Init: Thu 2022-01-13 06z GFS

Sunday Morning



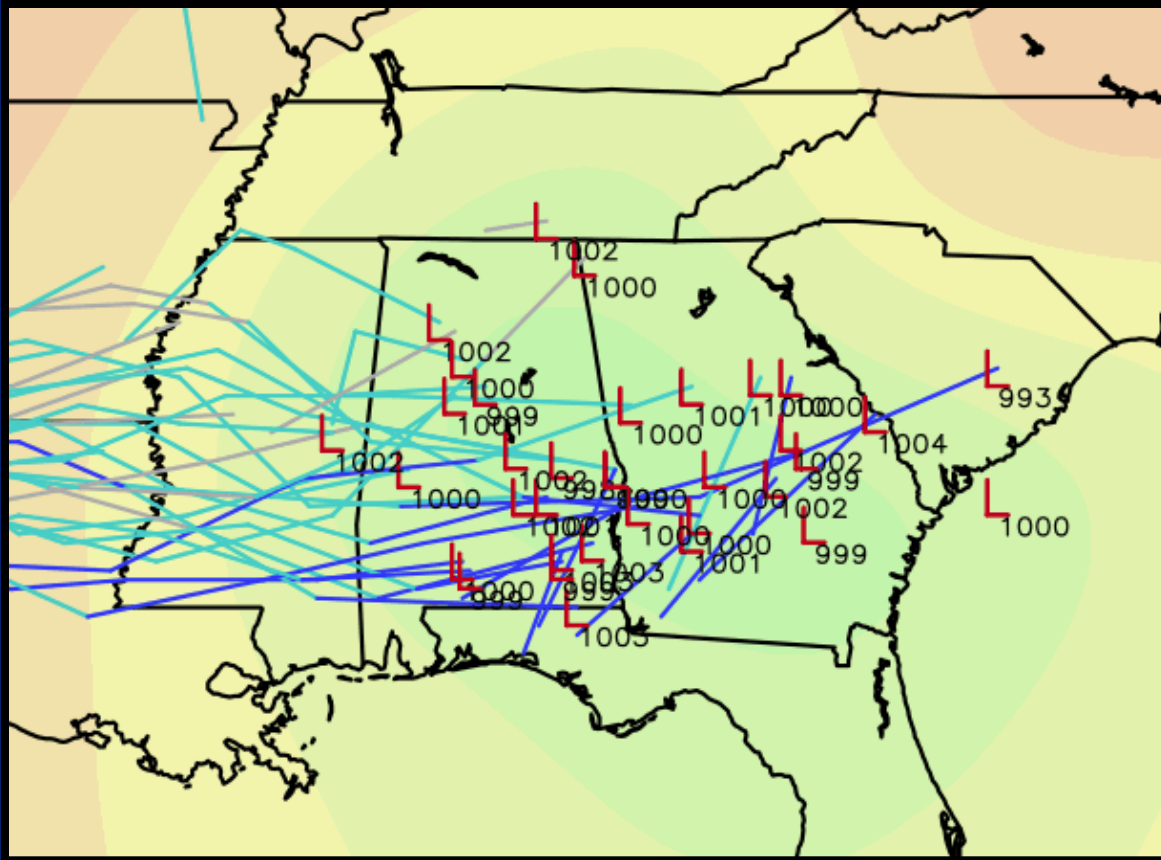
Key factors on where the ice/snow line will set up dependent on...

- Track of the low pressure system as it moves through the Southeast
- How fast the cold-air damming (wedge) moves south & west ahead of the surface low.

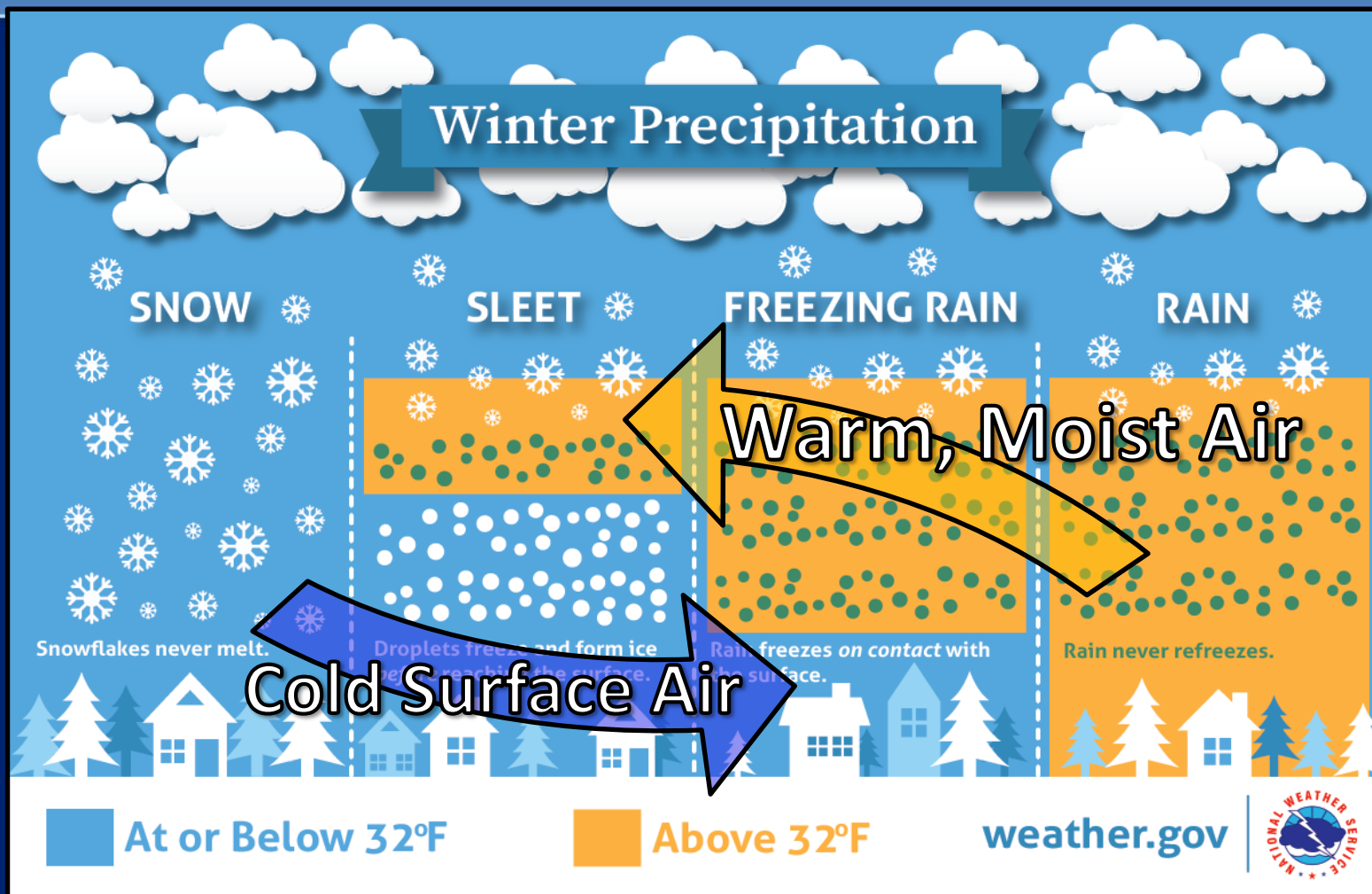
Location of that Surface Low?



Sunday morning



How Critical is +/- 1°F ??

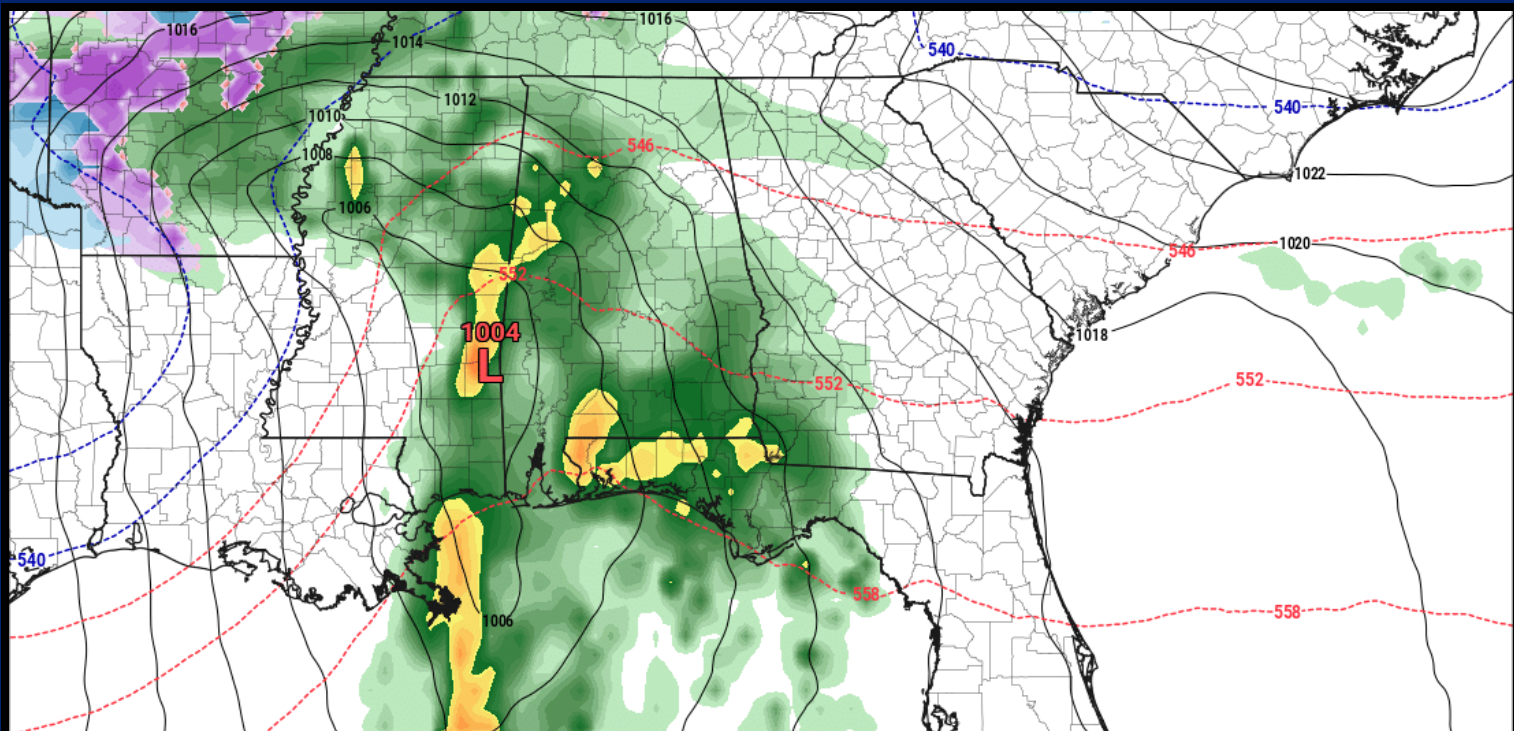


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Possible Storm Evolution

Saturday evening



NOTE: DO NOT LOOK AT THESE GRAPHICS AS ACTUAL FORECAST –
RAIN/ICE/SNOW LINES WILL CHANGE!

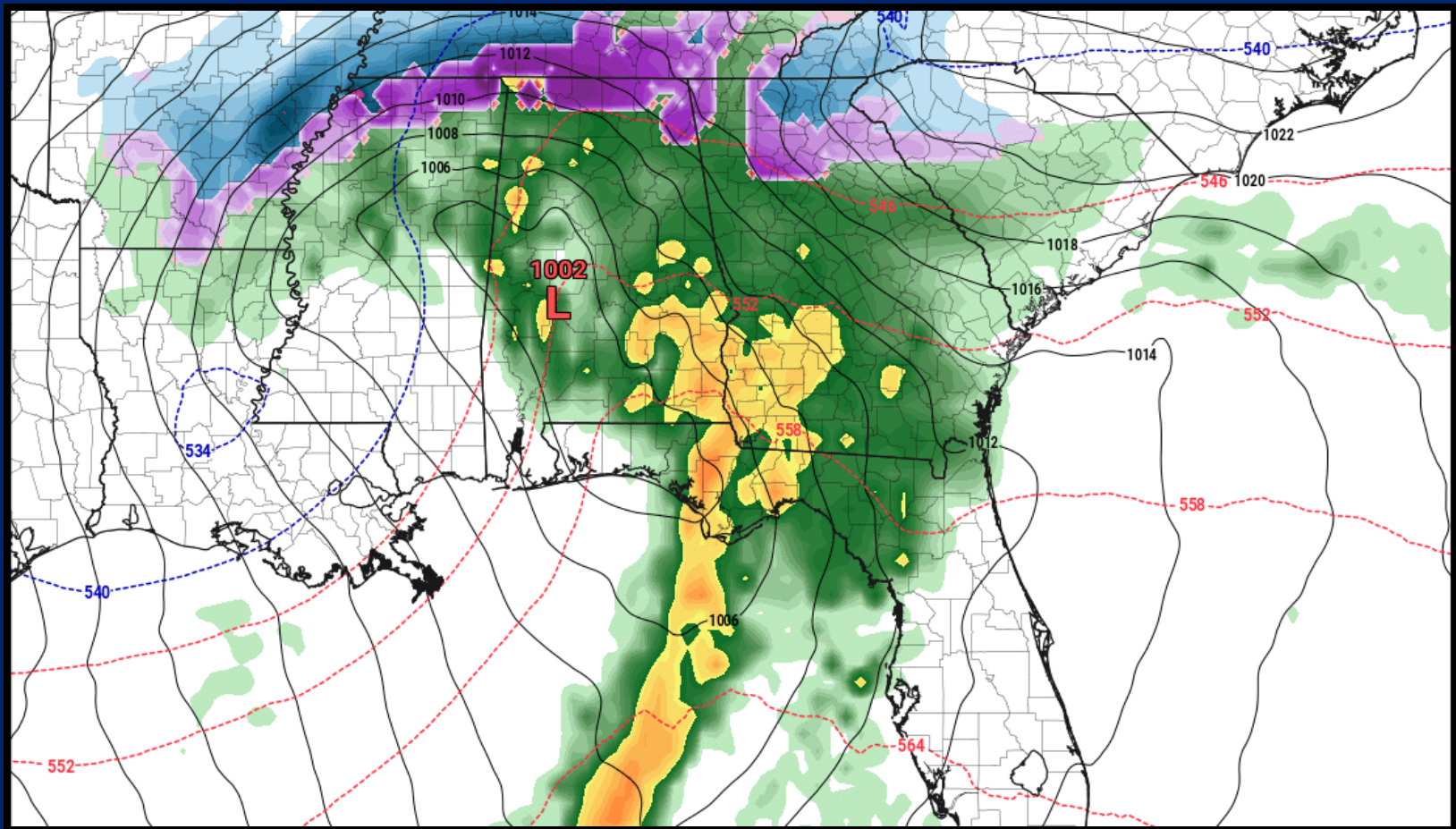


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Possible Storm Evolution

Saturday night (after midnight)

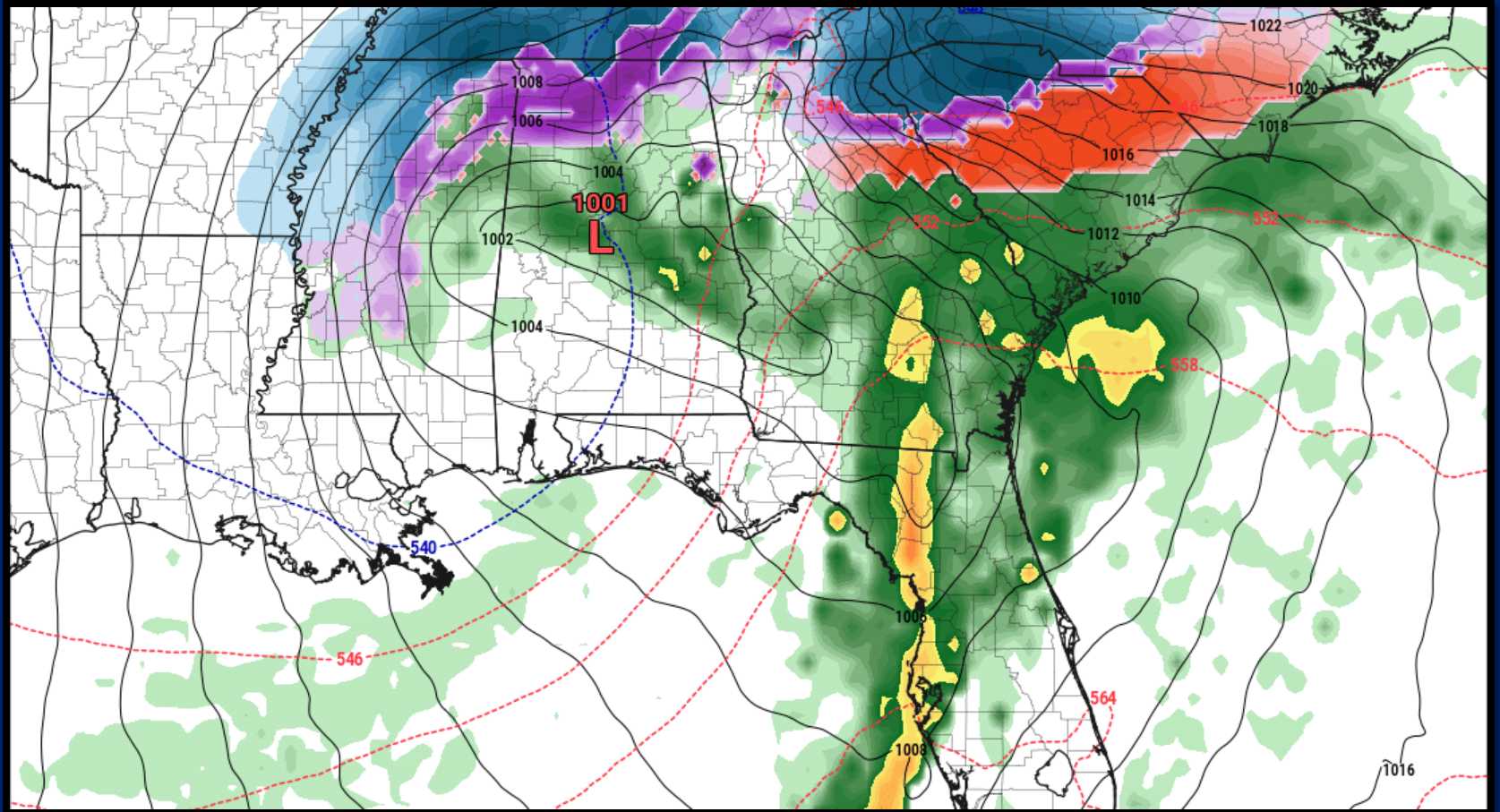


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Possible Storm Evolution

Sunday morning



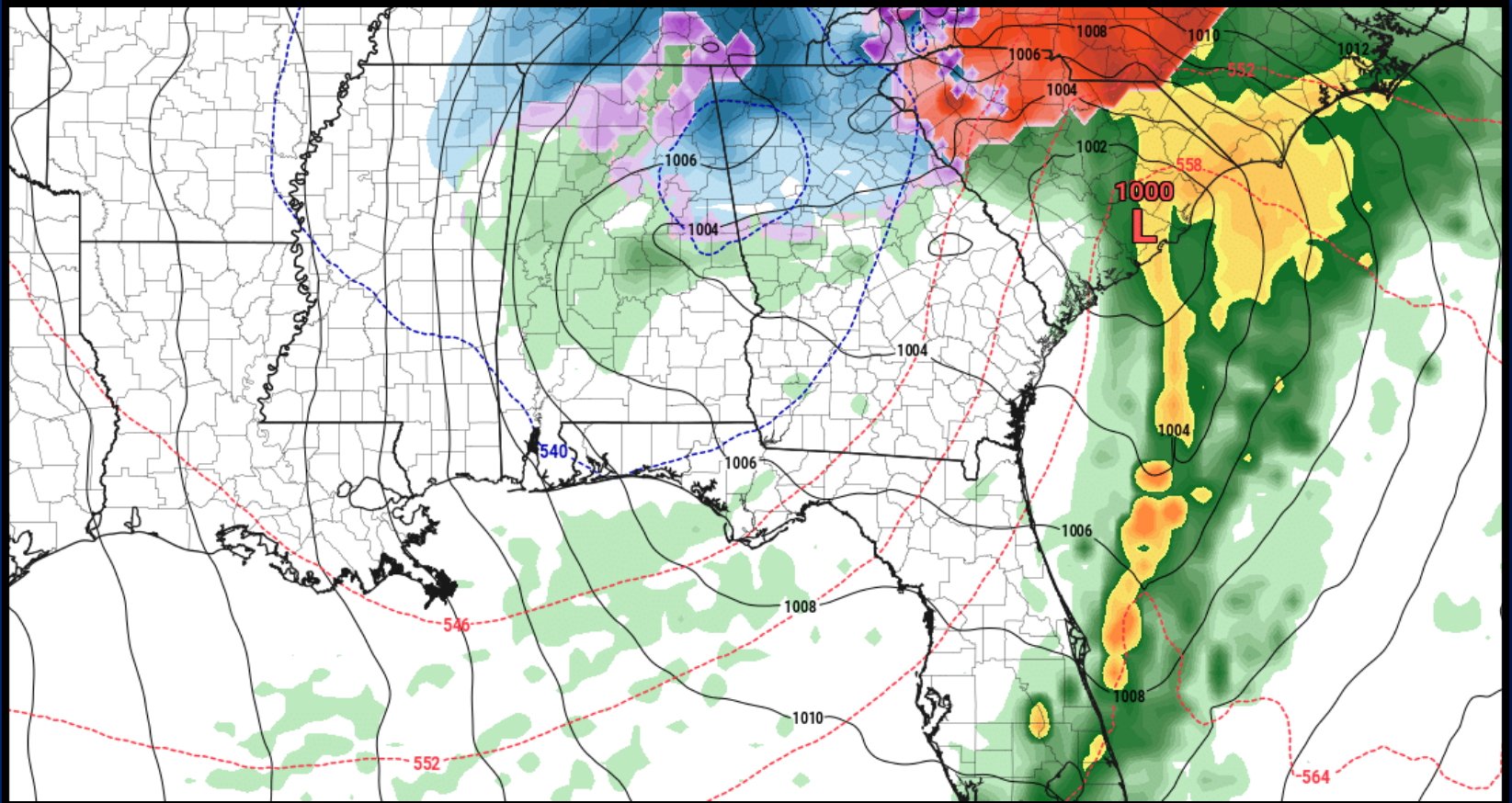
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Possible Storm Evolution

Sunday afternoon



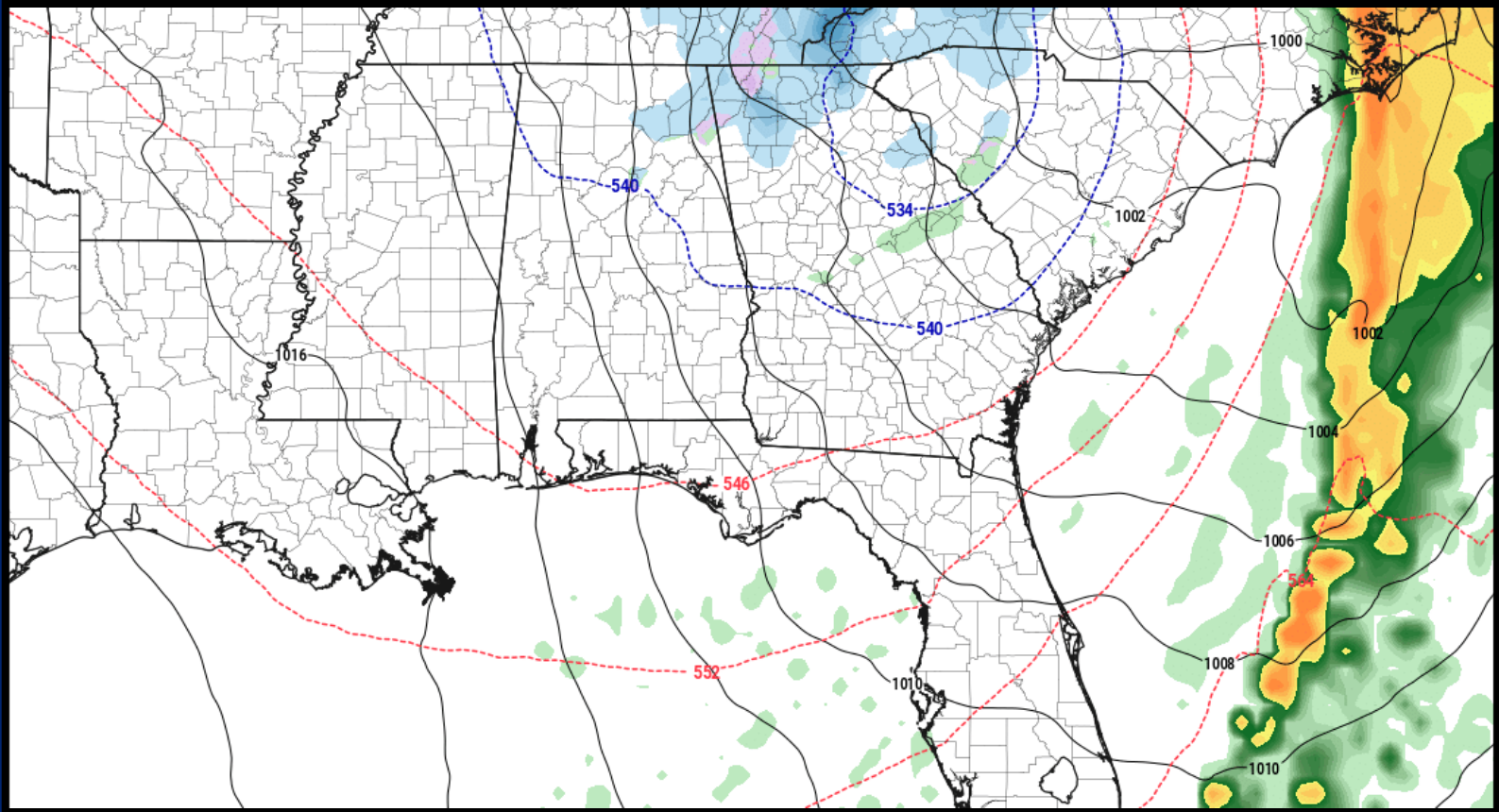
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Possible Storm Evolution

Sunday evening



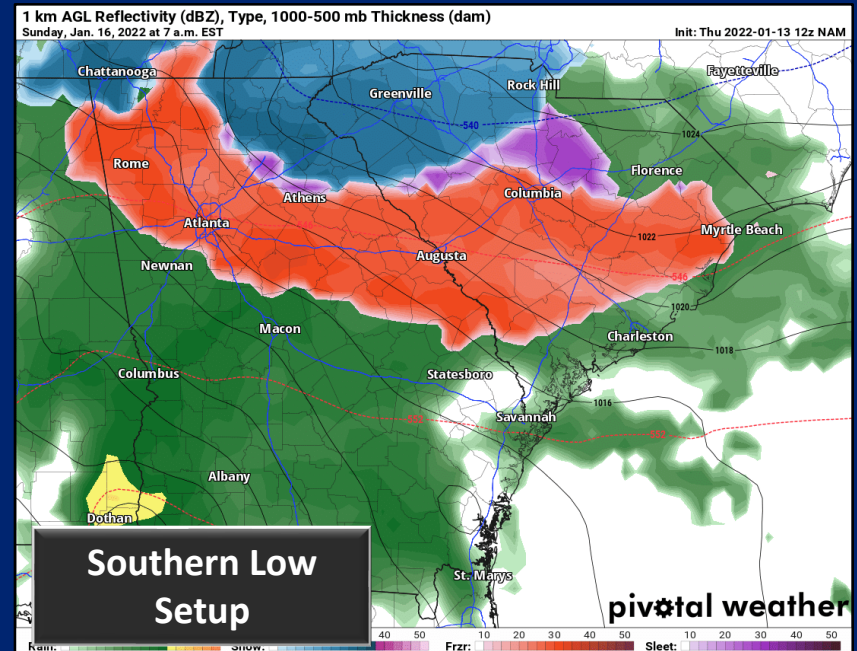
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GFS

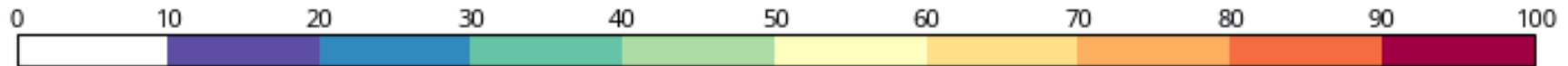
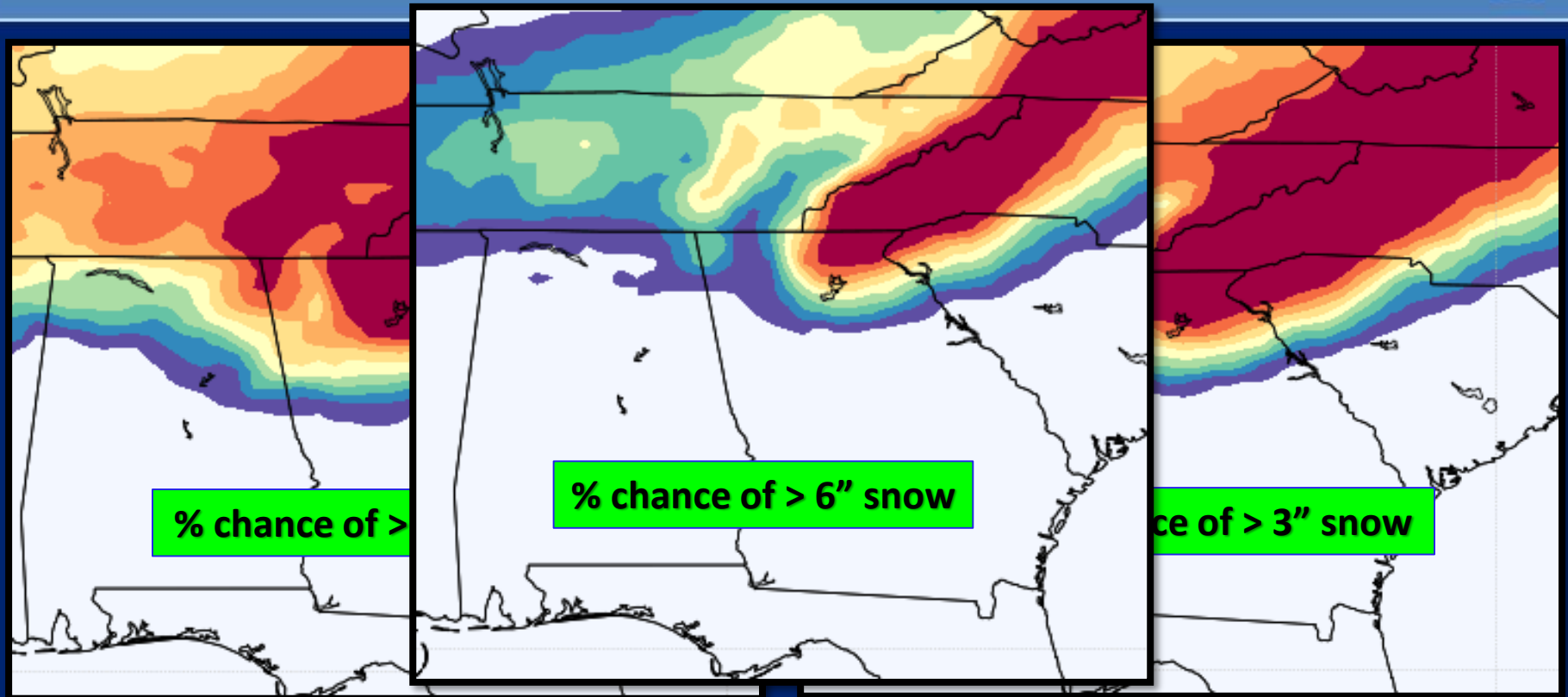
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Snowfall Probabilities



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Expected Ice Accumulation - Official NWS Forecast

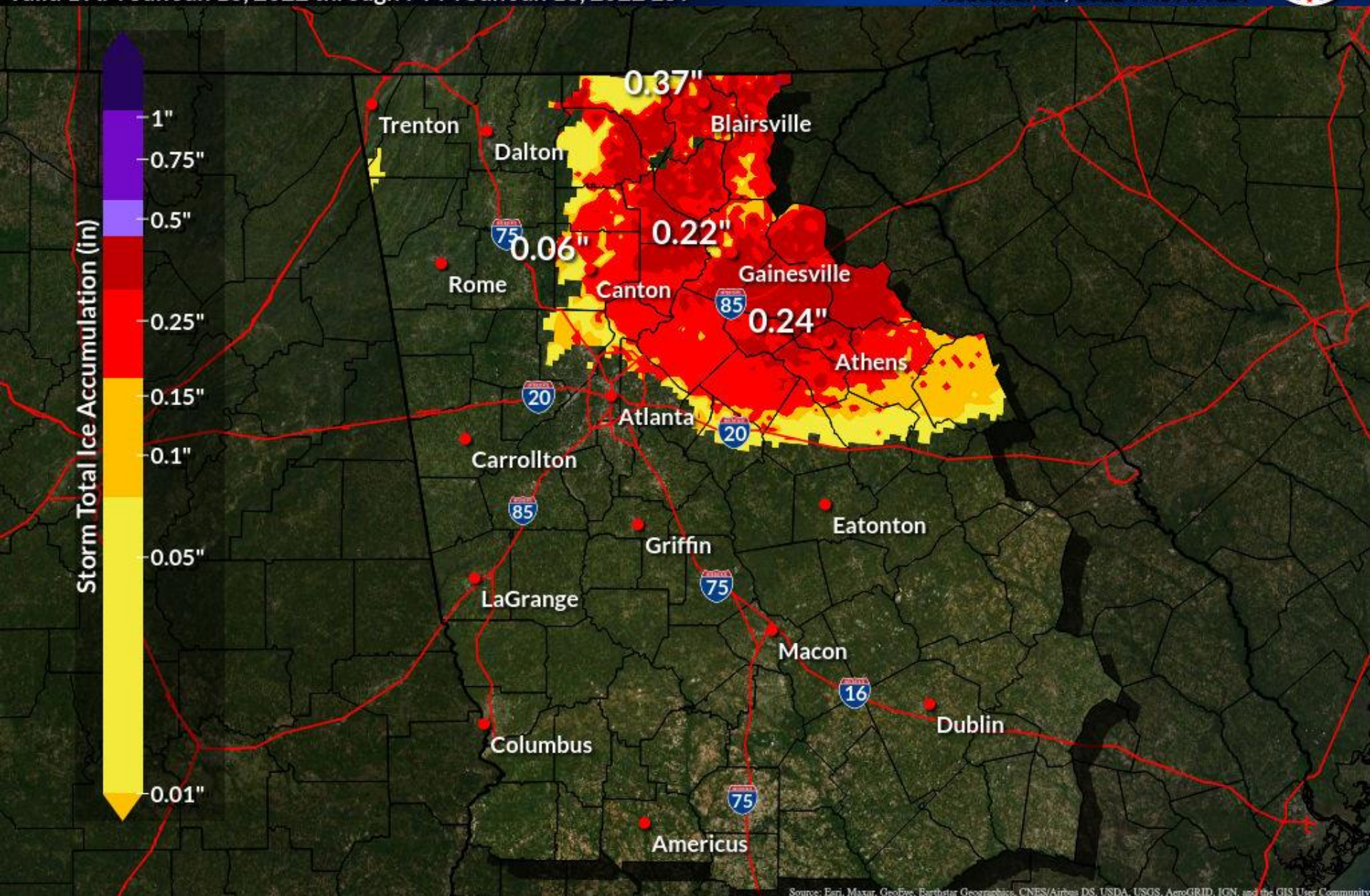
Weather Forecast Office

Atlanta, GA



Valid 1 AM Sun Jan 16, 2022 through 7 PM Sun Jan 16, 2022 EST

Issued Jan 13, 2022 9:45 AM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Expected Snowfall - Official NWS Forecast

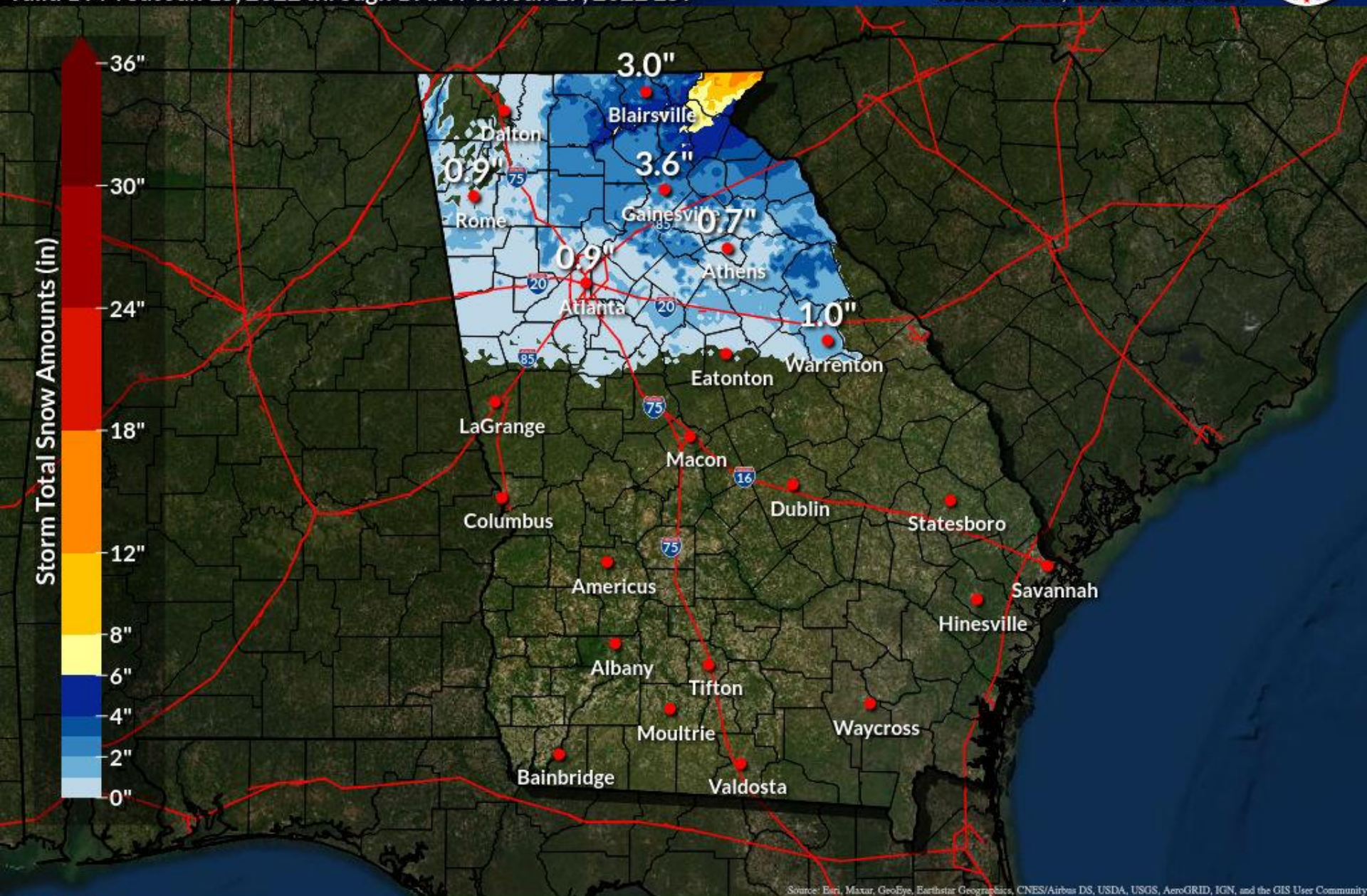
Weather Forecast Office

Atlanta, GA



Valid 1 PM Sat Jan 15, 2022 through 1 AM Mon Jan 17, 2022 EST

Issued Jan 13, 2022 9:43 AM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

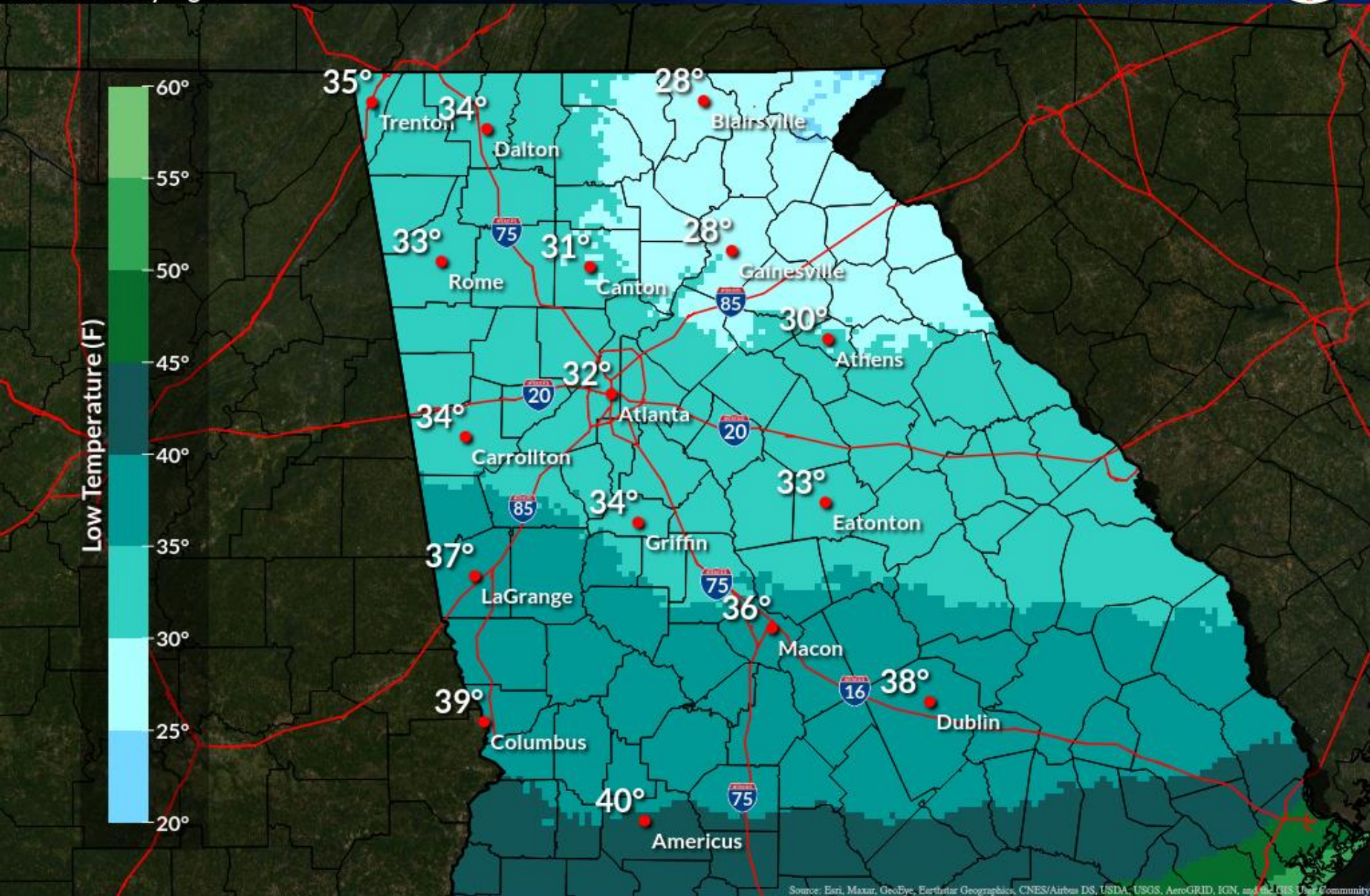
Minimum Temperatures

Valid Saturday night

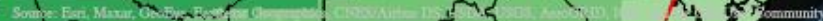
Weather Forecast Office

Atlanta, GA

Issued Jan 13, 2022 2:31 PM EST



Issued Jan 13, 2022 2:33 PM EST



Minimum Temperatures

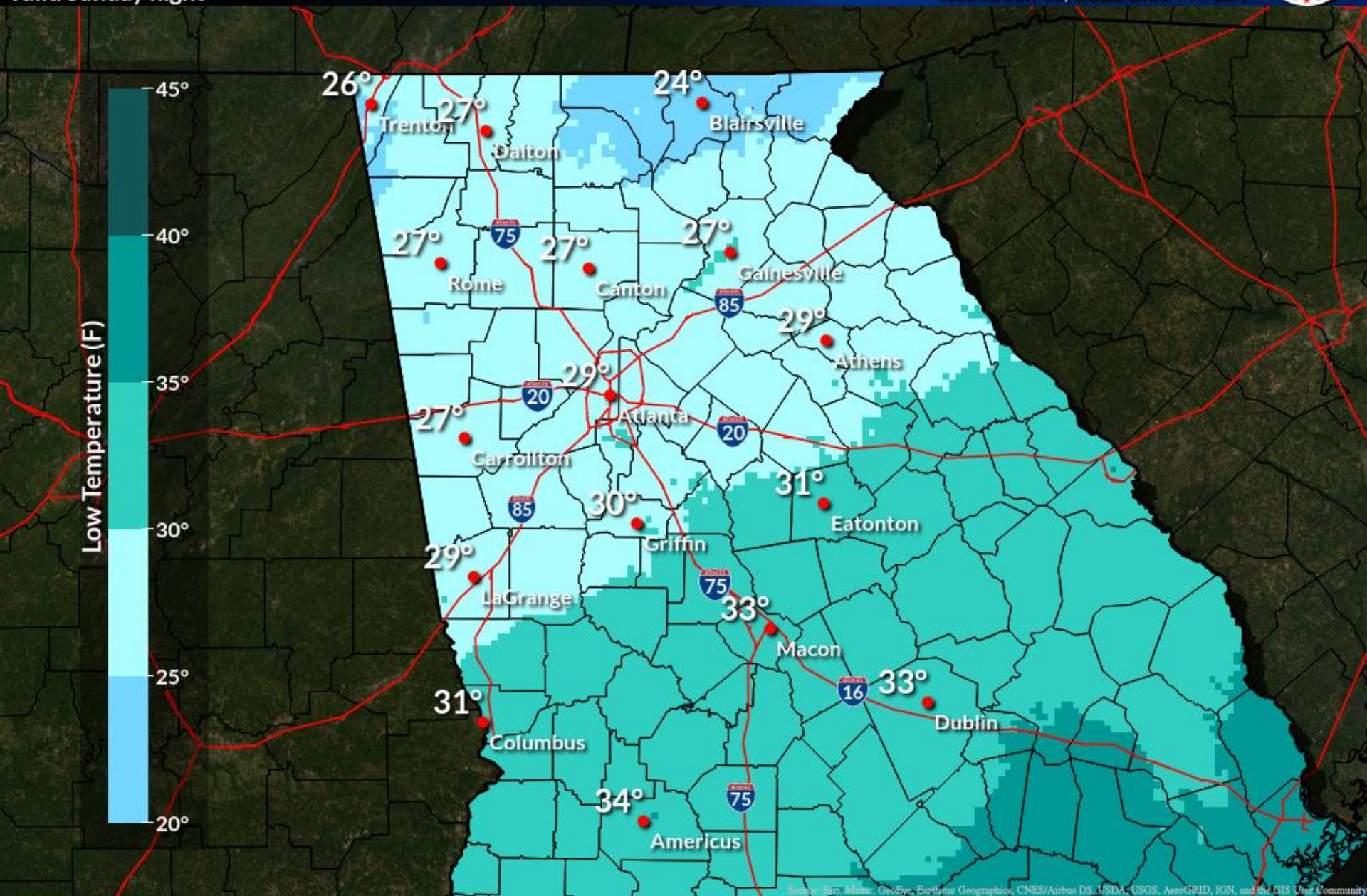
Weather Forecast Office

Atlanta, GA



Valid Sunday night

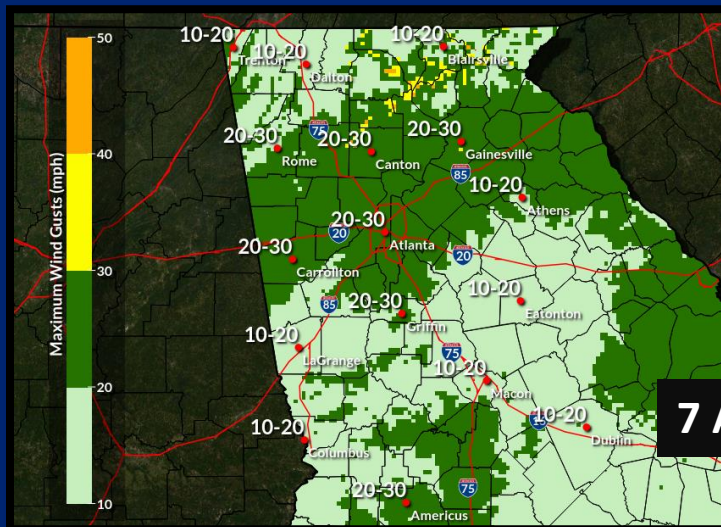
Issued Jan 13, 2022 2:33 PM EST



Forecast Peak Winds



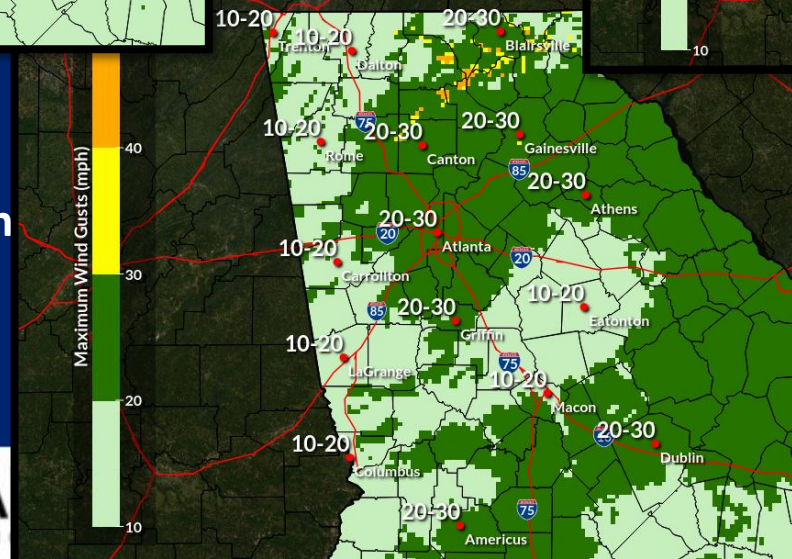
1 AM Sunday – 7 AM Sunday



1 PM Sunday – 7 PM Sunday



7 AM Sun – 1 PM Sun



Strongest wind gusts
expected Sunday AM
through early afternoon

Winds decreasing
through the evening
Sunday to < 25 mph
(after midnight)

Weekend Winter Weather Impacts

Potential Impact Levels late Saturday Night through Sunday night

Weather Forecast Office

Atlanta, GA

Issued Jan 13, 2022 12:42 PM EST



Impacts Are Possible

- Impactful accumulations of snow and/or ice could occur
- Travel disruptions will be possible
- Please stay tuned to the forecast

Impacts Are Expected

- Significant accumulations of snow and/or ice are possible
- Major travel disruptions expected
- Power outages possible

Minor Impacts Possible

- Light accumulations of snow and/or ice possible
- Expected to be mostly rain
- Travel impacts not expected

Summary



- The potential for a significant winter storm is increasing for parts of north Georgia later this weekend
- A mix of wintry precipitation appears possible over a 24-hour period (snow/sleet → freezing rain/rain → back to snow) beginning late Saturday night, through Sunday night.
- Details on snow/ice accumulations remain uncertain but some parts of the area (northeast GA) could see > 0.25" of ice and/or 3+" of snow

NWS Peachtree City / Atlanta



Next Briefing: Friday, January 14th (Time TBD)



- Phone: 770-486-1133
- Decision Support Page:
 - <http://www.weather.gov/ffc/dss>



- Web: www.weather.gov/atlanta



- Twitter: @NWSAtlanta
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- YouTube:
 - <https://www.youtube.com/user/NWSPeachtreeCity>



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